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Ref #	' Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("7035230").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/07 16:59
L2	1477	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:33
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L9	30640	709/217-231.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:33
L10	1752	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:33

L11	950	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:33
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L26	597	370/395.21.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/12/07 17:34
L27	295	370/395.31.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:34
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S25	176	S23 and conference same (reserv\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:20

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S26	116	S24 and conference same (reserv\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:35
S27	137	379/93.21.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:21
S28	214	379/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:21
S29	790	379/202.01.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	.2006/03/19 20:21
S30	1090	S27 or S28 or S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:21
S31	128	S30 and conference same (reserv\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:34
S32	219	conference near5 resource near5 (allocat\$5 or reserv\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 21:43
S33	19	conference near5 resource near5 (allocat\$5 or reserv\$5) same bandwidth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/07 17:34



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Cluster reserves: a mechanism for resource management in cluster-based network servers

Mohit Aron, Peter Druschel, Willy Zwaenepoel

June 2000 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(975.49 K8)

Additional Information: full citation, abstract, references, citings, index terms

In network (e.g., Web) servers, it is often desirable to isolate the performance of different classes of requests from each other. That is, one seeks to achieve that a certain minimal proportion of server resources are available for a class of requests, independent of the load imposed by other requests. Recent work demonstrates how to achieve this performance isolation in servers consisting of a single, centralized node; however, achieving performance isolation in a distributed, cluster bas ...

2 MRSVP: a resource reservation protocol for an integrated services network with mobile hosts



Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya January 2001 Wireless Networks, Volume 7 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: 📆 pdf(259.27 KB) Additional Information: full citation, references, citings, index terms

**Keywords:** integrated services, internet protocols, mobility, multimedia, quality of service, reservation protocol

Managing energy and server resources in hosting centers



Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01, Volume 35 Issue

Publisher: ACM Press

Full text available: pdf(1.61 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Internet hosting centers serve multiple service sites from a common hardware base. This paper presents the design and implementation of an architecture for resource management in a hosting center operating system, with an emphasis on energy as a driving resource management issue for large server clusters. The goals are to provision server resources for co-hosted services in a way that automatically adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

4 Cluster resource management: Resource overbooking and application profiling in shared hosting platforms



Bhuvan Urgaonkar, Prashant Shenoy, Timothy Roscoe

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(2.00 MB)

Additional Information: full citation, abstract, references, citings

In this paper, we present techniques for provisioning CPU and network resources in shared hosting platforms running potentially antagonistic third-party applications. The primary contribution of our work is to demonstrate the feasibility and benefits of overbooking resources in shared platforms, to maximize the platform yield: the revenue generated by the available resources. We do this by first deriving an accurate estimate of application resource needs by profiling applications on dedicated no ...

Multipoint audio and video control for packet-based multimedia conferencing





October 1994 Proceedings of the second ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(979.60 KB)

Additional Information: full citation, abstract, references, citings, index

With the advent of broadband integrated services data network (B-ISDN) technologies such as Asynchronous Transfer Mode (ATM) networks, packet-based multimedia (e.g., live audio and video, animation, and text) conferencing is becoming a viable means for achieving virtual proximity, which enables us to overcome the physical separation in space and time and to interact more effectively in our science and engineering endeavors. To bring about the reality of virtual proximity, many technical iss ...

6 <u>Multimedia over Wireless and Mobile Networks</u>: Providing stochastic delay auarantees through channel characteristics based resource reservation in wireless network



Prasanna Chaporkar, Saswati Sarkar

September 2002 Proceedings of the 5th ACM international workshop on Wireless mobile multimedia

Publisher: ACM Press

Full text available: pdf(185.43 KB) Additional Information: full citation, abstract, references, index terms

This paper is directed towards providing quality of service guarantees for transmission of multimedia traffic over wireless links. The quality of service guarantees require transmission of packets within prespecified deadlines. Oftentimes, bursty, location dependent channel errors preclude such deadline satisfaction leading to packet drop. Wireless systems need resource reservation to limit such deadline violation related packet drop below acceptable thresholds. The resource reservation depends ...

**Keywords:** connection admission control, stochastic delay guarantees, wireless networks

RSVP extensions for real-time services in hierarchical mobile IPv6 Nen-Fu Huang, Whai-En Chen



December 2003 Mobile Networks and Applications, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(416.82 KB) Additional Information: full citation, abstract, references, index terms

The Mobile IPv6 (MIPv6) provides many great features, such as sufficient addressing space, mobility, and security; MIPv6 is one of the most important protocols for next generation mobile Internet. Simultaneously, with the rapid improvement of wireless technologies, the real-time multi-media IP services such as video on demand, videoconference, interactive games, IP telephony and video IP phone will be delivered in the near future. Thus, to furnish accurate QoS for real-time services is one of th ...

Keywords: QoS and real-time services, RSVP, hierarchical MIPv6

Integrated service mobile internet: RSVP over mobile IPv4&6

Shing-Jiuan Leu, Ruay-Shiung Chang

December 2003 Mobile Networks and Applications, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(200.38 KB) Additional Information: full citation, abstract, references, index terms

While the Internet keeps its penetration into every facet of life and every corner of the globe, two things stand out. One is the hunger for high quality of services to convey audio and video data. The other is the desire for ubiquitous connections. Combining the two we have an Internet that is capable of supporting multimedia communications for nomadic users on the move. To have a high quality connection, resource must be allocated along the connection path. The current Internet standard for re...

Keywords: mobile internet protocol, quality of service, resource reSerVation protocol

9 An efficient primary-segmented backup scheme for dependable real-time communication in multihop networks

Krishna Phani Gummadi, Madhavarapu Jnana Pradeep, C. Siva Ram Murthy February 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 1

Publisher: IEEE Press

Full text available: to https://doi.org/10.1009/10.100

Several distributed real-time applications (e.g., medical imaging, air traffic control, and video conferencing) demand hard guarantees on the message delivery latency and the recovery delay from component failures. As these demands cannot be met in traditional datagram services, special schemes have been proposed to provide timely recovery for real-time communications in multihop networks. These schemes reserve additional network resources (spare resources) a priori along a backup channel ...

Keywords: backup channel, backup multiplexing, dependable connection, multihop network, primary channel, quality-of-service (QoS), real-time communication, resource reservation protocol (RSVP), segmented backup

10 Metascheduling for continuous media

David P. Anderson

August 1993 ACM Transactions on Computer Systems (TOCS), Volume 11 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdi(1,64 MB)

terms, review

Next-generation distributed systems will support continuous media (digital audio and



video) in the same framework as other data. Many applications that use continuous media need guaranteed end-to-end performance (bounds on throughput and delay). To reliably support these requirements, system components such as CPU schedulers, networks, and file systems must offer performance guarantees. A metascheduler coordinates these components, negotiating end-to-end gu ...

**Keywords:** multimedia, resource management

11 UMTS and heterogenous networks: HO-RSVP: a protocol providing QoS support for





seamless handover between wireless networks Shouwen Lai, Yuanchen Ma, Hui Deng

October 2006 Proceedings of the 2nd ACM international workshop on Quality of service & security for wireless and mobile networks Q2SWinet '06

Publisher: ACM Press

Full text available: pdi(659.39 KB) Additional Information: full citation, abstract, references, index terms

RSVP is basically designed for fixed networks and does not provide mobility support. In order to provide QoS support for mobility in a wireless environment, we present a new resource reservation protocol for seamless handover. HO-RSVP integrates with Mobile IPv4 to maintain a continuous QoS guarantee between two mobile nodes. In the protocol, the resource reservation remains unaffected in the unchanged segments of the signal path in case of mobility. It is only necessary to make a new reservatio ...

Keywords: HO-RSVP, QoS, RSVP, handover, mobile IPv4

12 Report on the 5th IFIP international workshop on quality of service (IWQOS'97) Oguz Angin, Andrew T. Campbell, Lai-Tee Cheok, Raymond R-F Liao, Koon-Seng Lim, Klara



Nahrstedt

July 1997 ACM SIGCOMM Computer Communication Review, Volume 27 Issue 3

Publisher: ACM Press

Full text available: mpdf(1.86 MB)

Additional Information: full citation, abstract, index terms

This paper presents a summary of the fifth International Workshop on Quality of Service (IWQOS) which was held at Columbia University in May 1997. The goal of this three-day meeting was to foster interaction between researchers active in the area of Quality of Service(QOS) research, to reflect on past experiences and lessons learnt, and to discuss future QOS challenges. To reflect this goal, this year's workshop included a hot program made up of (i) a keynote address on "Programming Telecommunic ...

13 Resource sharing for book-ahead and instantaneous-request calls

Albert G. Greenberg, R. Srikant, Ward Whitt

February 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 1

Publisher: IEEE Press

Full text available: pdf(346.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: advance reservation, book-ahead calls, integrated services networks, link partitioning, loss networks, quality of service, video teleconferencing

14 QoS: A proposal to improve network throughput using a QoS building blocks



approach at Central University of Venezuela

María E. Villapol, Eric A. Gamess, Neudith Morales

## October 2005 Proceedings of the 3rd international IFIP/ACM Latin American conference on Networking LANC '05

Publisher: ACM Press

Full text available: ndi(183.02 KB) Additional Information: full citation, abstract, references, index terms

Central University of Venezuela is the main university of Venezuela and has approximately 60,000 students and 16,000 staff members. The backbone network connects 11 colleges and many non-academic dependencies; some of them are located outside the main campus and even in other regions of the country. The Internet access is centralized and supported by private links at an aggregated data rate of 14.336 Mbps. Users of the institution network can access most of the Internet services with few or non ...

Keywords: congestion control, quality of service (QoS), service models

15 A packet-switched multimedia conferencing system.

Eve Schooler, Stephen Casner

January 1989 ACM SIGOIS Bulletin, Volume 10 Issue 1

Publisher: ACM Press

Full text available: 📆 pdf(689.43 KB) Additional Information: full citation, citings, index terms

16 A routing architecture for mobile integrated services networks

Shree Murthy, J. J. Garcia-Luna-Aceves

December 1998 Mobile Networks and Applications, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: ndf(272.02 KB) Additional Information: full citation, abstract, references, index terms

A drawback of the conventional Internet routing architecture is that its route computation and packet forwarding mechanisms are poorly integrated with congestion control mechanisms. Any datagram offered to the network is accepted; routers forward packets on a best-effort basis and react to congestion only after the network resources have already been wasted. A number of proposals improve on this to support multimedia applications; a promising example is the Integrated Services Packet Networ ...

17 Technical papers: A receiver based protecting protocol for wireless multi-hop



Emma Carlson, Martin Kubisch, Dániel Hollós

October 2005 Proceedings of the 2nd ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks PE-WASUN '05

Publisher: ACM Press

Full text available: pdf(239.34 KB) Additional Information: full citation, abstract, references, index terms

Nowadays most medium access protoçols designed for wireless ad hoc networks are based on collision avoidance strategies like the CSMA/CA based IEEE 802.11 protocol. But these types of protocols are not designed for multi-hop scenarios -- the efficiency of the channel utilization is too low which results in, among others, large packet delays. One popular approach to increase the channel utilization is to reserve time slots along a transmission path, thus having a scheduled access. However, a majo ...

Keywords: JamTDMA, protocol, receiver protection, reservation protocol, wireless multihop networks

18 Reliability constrained routing in QoS networks





: Anirban Chakrabarti, G. Manimaran

June 2005 IEEE/ACM Transactions on Networking (TON), Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(459.12 KB) Additional Information: full citation, abstract, references, index terms

The issue of handling network failures is becoming increasingly important. In this paper, we address the problem of constrained routing by treating reliability as one of the QoS requirements. The problem is to create a feasible path from a given node to the destination such that the bandwidth and reliability requirements of the path are satisfied and the cost of the path is minimized (Reliability Constrained Least Cost Routing Problem). To solve the problem, we propose an approach which employs a ...

**Keywords**: constrained routing, fault-tolerant routing, multicasting, resource reservation

19 Asymptotic resource consumption in multicast reservation styles

Danny J. Mitzel, Scott Shenker

October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94, Volume 24 Issue 4

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

The goal of network design is to meet the needs of resident applications in an efficient manner. Adding real-time service and point-to-multipoint multicast routing to the Internet's traditional point-to-point best effort service model will greatly increase the Internet's efficiency in handling point-to-multipoint real-time applications. Recently, the RSVP resource reservation protocol has introduced the concept of "reservation styles", which control how reservations are aggregat ...

20 Adaptive resource management algorithms for indoor mobile computing



environments

Songwu Lu, Vaduvur Bharghavan

August 1996 ACM SIGCOMM Computer Communication Review, Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96, Volume 26 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(299.22 KB)

Emerging indoor mobile computing environments seek to provide a user with an advanced set of communication-intensive applications, which require sustained quality of service in the presence of wireless channel error, user mobility, and scarce available resources. In this paper, we investigate two related approaches for the management of critical networking resources in indoor mobile computing environments:• adaptively readjusting the quality of service within pre-negotiated bounds in o ...

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1. IP easy-pass: a light-weight network-edge resource access control

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